

Title (en)
LEAD-FREE SOLDER ALLOY

Title (de)
BLEIFREIE LÖTPASTENLEGIERUNG

Title (fr)
ALLIAGE DE BRASAGE SANS PLOMB

Publication
EP 1980355 A4 20100616 (EN)

Application
EP 07791050 A 20070720

Priority
• JP 2007064312 W 20070720
• JP 2006204029 A 20060727

Abstract (en)
[origin: EP1980355A1] Provided is an SnCu lead-free solder alloy which eliminates a drawback that an intermetallic compound excessively precipitates and the precipitate serves as nuclei to form dross to thereby cause soldering defects including a needle-like protrusion to occur, thus to satisfy all of the properties required for practical use. A lead-free solder alloy contains 0.1 to 1.5% by weight of Cu, not less than 0.01 and less than 0.05% by weight of Co, 0.05 to 0.5% by weight of Ag and 0.01 to 0.1% by weight of Sb, the remainder being Sn, or further contains 0.001 to 0.008% by weight of Ge, whereby the formation of dross is prevented, and thus the drawback that soldering defects including a needle-like protrusion occur is eliminated.

IPC 8 full level
B23K 35/26 (2006.01); **C22C 13/00** (2006.01)

CPC (source: EP US)
B23K 35/262 (2013.01 - EP US); **C22C 13/00** (2013.01 - EP US)

Citation (search report)
• [X] EP 1273384 A1 20030108 - SENJU METAL INDUSTRY CO [JP]
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CN101780607A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1980355 A1 20081015; EP 1980355 A4 20100616; CN 101384395 A 20090311; CN 101384395 B 20110831; JP 2008030064 A 20080214; JP 4076182 B2 20080416; US 2010233018 A1 20100916; WO 2008013104 A1 20080131

DOCDB simple family (application)
EP 07791050 A 20070720; CN 200780005120 A 20070720; JP 2006204029 A 20060727; JP 2007064312 W 20070720; US 30579407 A 20070720